Colloids and Surfaces, 36 (1989) 471–472
Elsevier Science Publishers B.V., Amsterdam — Printed in The Netherlands

Author Index

Amin, Md. N. 459
Balard, H. 263
Beger, J. 373
Białopiotrowicz, T. 391
Biliński, B. 77
Blaakmeer, J. 439
Bodart-Revet, I. 229
Bucher, J.P. 155
Budd, J. 273
Burczyk, B. 373
Buttet, J. 155
Cases, J.M. 323
Clechet, P. 59
Collins, J.M. 459
Conte, A. 29
Cosgrove, T. 209
Coveney, F.M. 193
Dahlgren, C. 449
Damyanov, D. 427
Davies, T.W. 119
De, A. 59
De Bruyn, P.L. 359
De Donato, P. 323
Derouane, E.G. 229
Dore, J.C. 199
Dunn, M. 199
Edmonds, D.T. 179
Eicke, H.-F. 97
Elwing, H. 449
Engberts, J.B.F.N. 417
Esumi, K. 1
Exerowa, D. 339
Fleer, G.J. 439
Fokkink, L.G.J. 69
Gil, J.J. 29
Gourgue, A. 229
Graetzel, M. 155
Grases, F. 29
Gu, T. 39, 353
Habib, A.M. 109
Hasebe, T. 199
Herrington, T.M. 273
Hommel, H. 263
Huang, Z. 353
Jaffrezic-Renault, N. 59
Jain, T.K. 87
Jańczuk, B. 391
Jonsen, P. 127
Joos, P. 13
Kashchiev, D. 339
Khan, A.A. 405
Klinowski, J. 133
Kongolo, M. 323
Kunieda, H. 313
Legrand, A.P. 263
Lindström, M. 297
Lis, L.J. 459
Lundström, I. 449
Ma, C. 39
Maaref, A. 59
Maitra, A. 87
Matthiasson, E. 297
Meguro, K. 1
Michot, L. 323
Mohamed, M.M. 427
Morgan, M. 209
Mysels, K.J. 289
Nagy, J.B. 229
Newson, E. 155
Nikolova, A. 339
Nonaka, A. 49
Nyström, M. 297
Packer, K.J. 221
Pallas, N.R. 369
Papirer, E. 263
Pethica, B.A. 369
Pfeifer, H. 169
Piasecki, A. 383
Quellet, C. 97
Quinn, P.J. 459
Ralston, J. 69
Richardson, R. 209
Saafan, A. 109
Sakamoto, Y. 1
Siddiqui, M.S. 405
Slade, R.C.T. 119
Smith, A.L. 193
Smith, E.G. 193
Sokołowski, A. 373
Solans, C. 313
Stafford, R.E. 289
Strange, J.H. 193, 199
Tamura-Lis, W. 459
Truong, T.B. 155
Van Kemenade, M.J.J.M. 359
Van der Klink, J.J. 155
Varshney, K.G. 405
Verfaillie, J.P. 229

Vermeulen, M. 13
Vlaev, L. 427
Von Schenck, H. 449
Wikström, M. 449
Williams, R.J.P. 179
Witte, F.M. 417
Wójcik, W. 77, 391
Wormald, M.R. 179
Xie, F. 39
Xu, G. 97
Yan, Z. 353
Yano, N. 313
Yoshikawa, K. 1
Zelaya, F.O. 221

Colloids and Surfaces, 36 (1989) 473–474
Elsevier Science Publishers B.V., Amsterdam — Printed in The Netherlands

Subject Index

Adsorption, 323, 359, 373
  isotherm of n-butylbenzene, 49
  kinetics, 289
Aerosol OT, 87
Aggregation, 359
  numbers, 417
2-(2-Alkoxyethyl)-2-methyl-4-hydroxymethyl-1,3-dioxolanes, 383
Alkyl-2-hydroxyethyl sulfides, 373
2-Alkyl-2-methyl-4-hydroxymethyl-1,3-dioxolanes, 383
γ-Al_2O_3, 427
Amorphous and polymeric materials, 363
Amphiphile bilayer, 339
Aqueous alcohol solutions, 391
Aqueous solution–air interface, 373

Bilayer stability, 339
Block-copolymers,
  POE/PI/POE, 97
Brønsted acidity, 169
Brushite, 359
n-Butylbenzene vapour, 49

Calcium oxalate crystal growth, 29
Calcium phosphates, 359
Capacitance, 59
Casein, 359
Catalysts, 169
Cation exchanger, 405
Cationic–anionic surfactants, 353
Cationic latex, 439
Cellulose, 273
Charged substrates, 69
Chlorolignin, 297
Chromium(III) arsenosilicate,
  synthesis of, 405
Cloud point, 39
Contact angles, 69, 391, 449
Convection, 289
Cotton fibres, 109
Crystal growth inhibition, 359
Crystals,
  orientationally disordered, 199

Diffusion, 209, 221, 289
Dispersion component, 391
Dixanthogen, 323
Dyeing properties, 109

Dynamic surface tension, 289

Electric conductivity, 97
Electrolyte/insulator/semiconductor structures, 59
Electrolytes,
  effect of, 39
Electrophoresis, 59
Electrophoretic mobility, 193
Energy barrier, 289
Energy for transfer, 383
Energy of adsorption, 383

Ferric hydro sol, 1
Fibre structure, 109
Fluorocarbon surfactant, 1
FTIR diffuse reflectance, 323

Galena, 77
Gel–emulsion, 313
Gel formation, 97
Glycosaminoglycans, 29
Gradient method surface area, 49

HLB temperature, 313
Hole nucleation, 339
Hydrate coverage, 427
Hydrophobic interactions, 417
Hydrophobic surface, 449

Infrared spectroscopy, 427
Interaction parameter, 391
Interfacial tension, 391
Interfacial turbulence, 13
Ion exchanger,
  characterization of, 405
Ionic surfactants, 39
Ion-pair adsorption, 353

Kaolinite dehydroxylation, 119

Lamellar to H_{II} phase transition, 459
Laser Raman spectroscopy, 87
Latex with pH-independent positive charge, 439
Lewis acidity, 169
Lipid mixtures, 459
Lipid phase structures, 459

Magnetic resonance and relaxation, 263
Magnetic susceptibility, 179
Mass transfer, 13, 289
Maximum bubble pressure method, 289
Micellar rate effects, 417
Micelle–polymer complexes, 417
Microemulsions, 87, 229
Mixed adsorption, 353
Mixed bilayer, 1
Mixed solutions, 39

Newton black foam films,
  rupture of, 339
NMR, 169
  ^{27}Al and ^{29}Si, 117
  ^{1}H, 119
  multinuclear, 229
  of electrophoretic mobility, 193
  of phase boundaries, 179
  ^{195}Pt, 155
  pulsed field gradient, 209, 221
  solid state, 133
Nonionic surfactant, 313

Octacalcium phosphate, 359

pH, 273
Phase boundaries, 179
Poly(ethylene oxide), 263
Polymer hydrophobicity, 417
Polymer–surfactant interaction, 39
Polypropylene glycol, 39
Polystyrene latex, 439
Porous solids, 221
Protein determination, 449
Pyrite, 323

Quasi-elastic neutron scattering, 209

Redispersion, 1
Relaxation rates, 179
Ru/TiO_2, 127

Silica, 199, 263
Silica gel, 353
Silicon nitride, 59
Solid–fluid interface processes, 263
Solubility in water, 383
Spontaneous emulsification, 13
Stability of gel, 313
Stirring, 289
Streaming potential, 297
Supported catalysts, 155
Surface activity, 373, 383
Surface area, 273
  estimation, 49
Surface charge, 273
Surface free energy,
  of galena, 77
Surface OH groups, 427
Surface tension, 369, 391
  measurement, 289
Surfactant adsorption, 353
Surfactant systems, 193
Synchrotron radiation, 459

Temperature effect on bilayer rupture, 339
Thermal stability and reactivity, 427
TiO_2, 127
Transient interfacial tension, 13

Ultrafiltration membranes, 297

Viscosity, 97

Water, 369
Whey protein, 297
W/O emulsion, 313
W/O microemulsions, 97
Wood pulp, 273

Xanthate, 323
X-ray diffraction,
  real time, 459

Zeolite catalysts, 133
Zeolite ZSM5, 209
Zeolites, 169
Zeta potential, 297

Colloids and Surfaces, 36 (1989) 475–477
Elsevier Science Publishers B.V., Amsterdam — Printed in The Netherlands

Contents

(Abstracted/indexed in: Chemical Abstracts; Current Contents: Physical, Chemical and Earth Sciences; INSPEC; PASCAL/CNRS)

VOLUME 36 (1989)

Properties of mixed bilayers of hydrocarbon and fluorocarbon surfactants on monodispersed ferric hydro sols
K. Esumi, Y. Sakamoto, K. Yoshikawa and K. Meguro (Tokyo, Japan) 1
Interfacial tension during mass transfer of decanoic acid from hexane to an aqueous solution containing NaOH
M. Vermeulen and P. Joos (Wilrijk, Belgium) 13
Glycosaminoglycans: inhibition of calcium oxalate crystalline growth and promotion of crystal aggregation
F. Grases, J.J. Gil and A. Conte (Palma de Mallorca, Spain) 29
The effect of electrolytes on the cloud point of mixed solutions of polypropylene glycol and ionic surfactants
F. Xie, C. Ma and T. Gu (Beijing, China) 39
Surface area estimation from the adsorption isotherm gradient at the linear portion by n-butylbenzene vapour
A. Nonaka (Ibaraki, Japan) 49
Study of the silicon nitride/aqueous electrolyte interface on colloidal aqueous suspensions and on electrolyte/insulator/semiconductor structures
N. Jaffrezic-Renault, A. De, P. Clechet (Ecully, France) and A. Maaref (Monastir, Tunisia) 59
Contact angles on charged substrates
L.G.J. Fokkink and J. Ralston (Ingle Farm, Australia) 69
An estimation of surface free energy of galena
B. Biliński and W. Wójcik (Lublin, Poland) 77
Chain conformation of Aerosol OT in water-in-oil microemulsions as studied by laser Raman spectroscopy
T.K. Jain and A. Maitra (Delhi, India) 87
Conformation-controlled network formation of triblock-copolymers in water-in-oil microemulsions
H.-F. Eicke, C. Quellet and G. Xu (Basel, Switzerland) 97
Interrelations between the fibre structure and the relative dyeing properties of NaOH-treated cotton fibres
A. Saafan and A.M. Habib (Tanta, Egypt) 109

Special issue: NMR Spectroscopy in Colloid and Interface Science. A Collection of Papers Presented at an International Conference at Bristol University, Bristol, United Kingdom, 6–8 April 1988.

Preface 117
The mechanism of kaolinite dehydroxylation followed by high resolution ^{27}Al and ^{29}Si NMR
R.C.T. Slade and T.W. Davies (Exeter, United Kingdom) 119

A ^{1}H NMR study of reduced Ru/TiO_2 and TiO_2
P. Jonsen (Sunbury-on-Thames, United Kingdom) 127
Solid-state NMR studies of zeolite catalysts
J. Klinowski (Cambridge, United Kingdom) 133
^{195}Pt NMR studies of supported catalysts
J.P. Bucher, J. Buttet, J.J. van der Klink, M. Graetzel (Lausanne, Switzerland), E. Newson and T.B. Truong (Neuhausen, Switzerland) 155
Brønsted and Lewis acidity of zeolites and related catalysts studied by nuclear magnetic resonance spectroscopy
H. Pfeifer (Leipzig, G.D.R.) 169
NMR studies of phase boundaries using magnetic susceptibility changes: relaxation rates near phase boundaries
M.R. Wormald, D.T. Edmonds and R.J.P. Williams (Oxford, United Kingdom) 179
NMR studies of electrophoretic mobility in surfactant systems
F.M. Coveney, J.H. Strange (Canterbury, United Kingdom), A.L. Smith and E.G. Smith (Bebington, United Kingdom) 193
Orientationally disordered crystals in porous silica: cyclohexane
J.C. Dore, M. Dunn, T. Hasebe and J.H. Strange (Canterbury, United Kingdom) 199
The diffusion of benzene in high silica zeolite ZSM5 studied by PFGNMR and QUENS
M. Morgan, T. Cosgrove and R. Richardson (Bristol, United Kingdom) 209
Observations of diffusion of fluids in porous solids by pulsed field gradient NMR
K.J. Packer and F.O. Zelaya (Sunbury-on-Thames, United Kingdom) 221
Multinuclear NMR characterization of CTAB–hexanol–water, sodium oleate–butanol–water and Triton X-100–decanol–water microemulsions
J.B. Nagy, I. Bodart-Ravet, E.G. Derouane, A. Gourgue and J.P. Verfaillie (Namur, Belgium) 229
Partitioning of chloroform and benzene in a layer of poly(ethylene oxide) anchored on silica
H. Hommel, A.P. Legrand (Paris, France), H. Balard and E. Papirer (Mulhouse, France) 263

End of special issue papers

Surface charge and surface area of cellulose fibres
J. Budd and T.M. Herrington (Reading, United Kingdom) 273
Surface tension measurement while stirring. A tool in unraveling adsorption kinetics
K.J. Mysels and R.E. Stafford (La Jolla, CA, U.S.A.) 289
Streaming potential as a tool in the characterization of ultrafiltration membranes
M. Nyström, M. Lindström (Lappeenranta, Finland) and E. Matthiasson (Reykjavik, Iceland) 297
The stability of gel–emulsions in a water/nonionic surfactant/oil system
H. Kunieda, N. Yano (Yokohama, Japan) and C. Solans (Barcelona, Spain) 313
An infrared investigation of amylxanthate adsorption by pyrite after wet grinding at natural and acid pH
J.M. Cases, P. de Donato, M. Kongolo and L. Michot (Vandoeuvre, France) 323
Effect of temperature on the rupture of Newton black foam films
A. Nikolova, D. Kashchiev and D. Exerowa (Sofia, Bulgaria) 339
Mixed adsorption of cationic and anionic surfactants from aqueous solution on silica gel
Z. Huang, Z. Yan and T. Gu (Beijing, China) 353
The influence of casein on the precipitation of brushite and octacalcium phosphate
M.J.J.M. van Kemenade and P.L. de Bruyn (Utrecht, The Netherlands) 359

Brief Note
The surface tension of water
N.R. Pallas (Cleveland, OH, U.S.A.) and B.A. Pethica (Parsippany, NJ, U.S.A.) 369

Chemical structure and surface activity. Part XIX. The adsorption of alkyl-2-hydroxyethyl sulfides at the aqueous solution–air interface
A. Sokołowski, B. Burczyk (Wrocław, Poland) and J. Beger (Freiberg, G.D.R.) 373
Chemical structure and surface activity. Part XXI. The amphiphilic properties of 2-(2-alkoxyethyl)-2-methyl-4-hydroxymethyl-1,3-dioxolanes
A. Piasecki (Wrocław, Poland) 383
The surface tension components of aqueous alcohol solutions
B. Jańczuk, T. Białopiotrowicz and W. Wójcik (Lublin, Poland) 391
Synthesis, ion exchange behaviour and characterization of chromium(III) arsenosilicate cation exchanger
K.G. Varshney, A.A. Khan and M.S. Siddiqui (Aligarh, India) 405
Micelle–polymer complexes: aggregation numbers, micellar rate effects and factors determining the complexation process
F.M. Witte and J.B.F.N. Engberts (Groningen, The Netherlands) 417
Infrared spectroscopy study of the nature and reactivity of a hydrate coverage on the surface of γ-Al_2O_3
L. Vlaev, D. Damyanov and M.M. Mohamed (Bourgas, Bulgaria) 427
Synthesis of a polystyrene latex with a positive, pH independent, surface charge
J. Blaakmeer and G.J. Fleer (Wageningen, The Netherlands) 439
A solid-phase method for protein determination
M. Wikström (Göteborg, Sweden), H. Elwing, C. Dahlgren, H. von Schenck and I. Lundström (Linköping, Sweden) 449
Phase characterization of mixtures of dioleoylphosphatidylcholine, dioleoylphosphatidylethanolamine and cerebrosides
Md.N. Amin, J.M. Collins (Milwaukee, WI, U.S.A.), W. Tamura-Lis, L.J. Lis (Kent, OH, U.S.A.) and P.J. Quinn (London, United Kingdom) 459

Announcements 469
Author Index 471
Subject Index 473
Contents (Vol. 36) 475